

Translation

PATENT COOPERATION TREATY

PCT/DE2003/003766



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference T 44736WO/NZ/hs	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/DE2003/003766	International filing date (day/month/year) 11 November 2003 (11.11.2003)	Priority date (day/month/year) 25 March 2003 (25.03.2003)
International Patent Classification (IPC) or national classification and IPC H01Q 1/24		
Applicant AUDIOTON KABELWERK GMBH ZWEIGNIEDERLASSUNG SCHEINFELD		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☒ (sent to the applicant and to the International Bureau) a total of 4 sheets, as follows:

☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

☒ Box No. I Basis of the report

☐ Box No. II Priority

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV Lack of unity of invention

☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

☐ Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 22 October 2004 (22.10.2004)	Date of completion of this report 01 July 2005 (01.07.2005)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/DE2003/003766

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages _____ 1-5 _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- pages _____, as originally filed/furnished
- pages* _____, as amended (together with any statement) under Article 19
- pages* _____ 1-15 _____ received by this Authority on _____ 16 May 2005 (16.05.2005)
- pages* _____ received by this Authority on _____
- ☒ the drawings:
- pages _____ 1/6-6/6 _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/DE 03/03766

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-15	YES
	Claims		NO
Inventive step (IS)	Claims	1-15	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims		NO

2. Citations and explanations

1. Claim 1 relates to a coupling structure in a mount for a mobile radio terminal for the electromagnetic coupling of HF signals between the antenna of the mobile radio terminal and the mount.
2. Reference is made to the following documents:

D1: US-A-6 134 421 (SANTOS THEODORE R ET AL)
17 October 2000 (2000-10-17)
D2: EP-A-0 999 607 (NOKIA MOBILE PHONES LTD)
10 May 2000 (2000-05-10)
D3: EP-A-0 776 339 (NOKIA MOBILE PHONES LTD)
2 April 1997 (1997-04-02)
D4: US-A-5 668 561 (PERROTTA ALESSANDRO ET AL)
16 September 1997 (1997-09-16)
D5: DE-A-199 15 246 (PHILIPS CORP INTELLECTUAL PTY)
5 October 2000 (2000-10-05)
D6: US-A1-2001/001343 (LOGOTHETIS JAMES) 24 May 2001
(2001-05-24).
3. Document D4 is considered to be the closest prior art for the subject matter of claim 1. D4 discloses a coupling structure in a mount for a mobile radio terminal for the electromagnetic coupling of HF signals between the antenna of the mobile radio terminal and the mount, to which an external antenna

is connected. The coupling structure is multi-layered and comprises a plurality of partial coupling structures arranged in substantially parallel planes.

The subject matter of claim 1 differs therefore from the known coupler in that one of these partial coupling structures consists of two or more differently shaped partial structures designed for different wavelengths.

Document D1 describes a coupling structure in a mount for a mobile radio terminal, in which a second frequency range can be transmitted by means of an additional parasitic coupling element. However, a combination of the two documents would not lead a person skilled in the art to the arrangement and shaping of the partial coupling structures for coupling different frequency bands as claimed in claim 1.

Consequently, claim 1 meets the PCT requirements for novelty and inventive step.

Claims 2-15 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.